graphic method, and has recently added three discoveries. In the past year PALISA has discovered two by the older methods. 342 are now known, and at the present rate of discovery the resources of the computing staff in Berlin will soon be severely taxed to furnish satisfactory orbits for them.

CHARLOIS has assigned to the first asteroid discovered by him in 1892 the name *Columbia*, in honor of our quadri-centennial year.

WOLF has named the first planet discovered by him *Brucia*, in honor of Miss BRUCE, who has made generous contributions of money for astronomical research. W. W. C.

ELEMENTS OF COMET *c*, 1892 (BARNARD, Oct. 12).

From Mr. BARNARD'S observations of October 13, 19 and 25, I have computed new parabolic elements of the comet discovered by him with the CROCKER photographic telescope. They are :

$$T = \text{Gr. M. T., 1892, Dec. } 2^{d}.5977$$
$$\left.\begin{aligned} \omega &= 165^{\circ}\ 44'.51 \\ \Omega &= 201\ \ 49\ .34 \\ i &= \ 33\ \ 35\ .93 \end{aligned}\right\} 1892.0$$
$$\log q = 0.18528$$

Residuals (Obs.—Comp.).

$$\cos\beta'.\,\Delta\lambda' = +0'.64$$
$$\Delta\beta' = \ \ 0.00$$

The residual in longitude is large, but another approximation to a parabolic orbit does not reduce it. This fact, taken in connection with the direct motion and the fairly small inclination, points strongly to an elliptic orbit. However, the first observation depends only upon a *Lalande* star place, and the character of the orbit cannot now be decided.

The original elements, distributed by telegraph, represented the observations upon which they were based very well; though, as stated in the telegrams, they were subject to considerable uncertainty. W. W. C.

October 27.

NOTE.—Elliptic elements by Professor KRUEGER, of Kiel, Germany, just received, assign to this comet a period of 10 years. Elements by SCHUELHOF assign a period of about 6 years, and indicate a close relation to WOLF'S periodic comet.